

PATENT COOPERATION TREATY

PCT 12-30-05

From the INTERNATIONAL SEARCHING AUTHORITY

To:
DEAN A. ERSFELD
OFFICE OF INTELLECTUAL PROPERTY COUNSEL
POST OFFICE BOX 33427
SAINT PAUL, MN 55133-3427

RECEIVED

OCT 0 3 2005

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year)

30 SEP 2005

FOR FURTHER ACTION See paragraphs 1 and 4 below.

International application No.
PCT/US04/37854

Applicant
3M INNOVATIVE PROPERTIES COMPANY

FOR FURTHER ACTION See paragraphs 1 and 4 below.

International filing date (day/month/year) 12 November 2004 (12.11.2004)

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The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority
have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.

For more detailed instructions, see the notes on the accompanying sheet.

2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4 Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Authorized office

O Margaret Seaman

Telephone No. 703-308-1235

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

CAR 0CT - 3 2005

## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 59105WO006		Form PCT/ISA/220 ere applicable, item 5 below.
International application No. PCT/US04/37854	International filing date (day/month/year) 12 November 2004 (12.11.2004)	(Earliest) Priority Date (day/month/year) 14 November 2003 (14.11.2003)
Applicant 3M INNOVATIVE PROPERTIES COMPA	ANY	
This international search report consists of It is also accompanied  1. Basis of the Report  a. With regard to the language, the important in the international at a translation of the of a translation of the of a translation furth of a translation furt	by a copy of each prior art document cited international search was carried out on the bas application in the language in which it was file international application into	in this report.  sis of: ed. , which is the language ch (Rules 12.3(a) and 23.1(b))
the text is approved as subm	itted by the applicant.	as it appears in Box No. IV. The applicant
may, within one month from	the date of mailing of this international search	
as suggested by the as selected by this A	Authority, because the applicant failed to sugg	gest a figure.

Form PCT/ISA/210 (first sheet) (April 2005)

## INTERNATIONAL SEARCH REPORT

International application No

PCT/US04/37854

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): C07D 471/02, 471/06						
US CL : 546/82, 118						
	According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED					
<del></del>	umentation searched (classification system followed by	classification symbols)				
U.S.: 546		classification symbols)				
Documentation	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST, STNL Regustry, CAPlus						
C. DOCL	IMENTS CONSIDERED TO BE RELEVANT					
Category *	/ Citation of document, with indication, where app		Relevant to claim No.			
A	US 6,664,260 A (CHARLES et al) 16 December 2003	(16.12.2003), claims.	1-47			
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	·		,			
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Further	r documents are listed in the continuation of Box C.	See patent family annex.				
* 5	Special categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic				
"A" documen	t defining the general state of the art which is not considered to be of	principle or theory underlying the inve				
	r relevance	"X" document of particular relevance; the considered novel or cannot be considered.				
	oplication or patent published on or after the international filing date  at which may throw doubts on priority claim(s) or which is cited to	when the document is taken alone				
"L" document establish specified	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step				
1	rt referring to an oral disclosure, use, exhibition or other means	with one or more other such document obvious to a person skilled in the art				
1	at published prior to the international filing date but later than the	"&" document member of the same patent	family			
priority o	date claimed					
Date of the a	actual completion of the international search	Date of mailing of the international search report				
	er 2005 (01.09.2005)	30 SEP 21115	-11/1			
Name and mailing address of the ISA/US		Authorized officer Manua	a Whiten			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		D. Wargaret Seaman				
P.0	O. Box 1450	Telephone No. 703-308-1235				
Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230						
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Form PCT/ISA/210 (second sheet) (April 2005)

## PATENT COOPERATION TREATY

NTERNAT	IONAL SEARCH	ING AUTHOR	YTL			
To: DEAN A. ERSFELD OFFICE OF INTELLECTUAL PROPERTY COUNSEL POST OFFICE BOX 33427		BL	WR	PCT ITTEN OPINION OF THE		
SAINT PA	AUL, MN 55133-	3427		ļ		NAL SEARCHING AUTHORITY
•						(PCT Rule 43bis.1)
					Date of mailing (day/month/year)	30 SEP 2005
Applicant	's or agent's file re	ference			FOR FURTHER	ACTION See paragraph 2 below
59105WO	006 nal application No.		Internationa	al filing data	(day/month/year)	Priority date (day/month/year)
		1				, , ,
PCT/USO- Internation	4/37854 nal Patent Classific	cation (IPC) or	12 Novemb both nation	er 2004 (12.1 nal classificati	1.2004) on and IPC	14 November 2003 (14.11.2003)
	07D 471/02, 471/0					
Applicant		o una es em s	10/02, 110	<u> </u>		
3M INNO	VATIVE PROPE	RTIES COMPA	ANY			
1. This	opinion contains in	idications relati	ing to the fo	ollowing item	s:	
$\boxtimes$	Box No. I	Basis of the o	pinion			
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V					
	Box No. VI	Certain docu	ments cited	I		
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain obser	rvations on	the internation	nal application	.
					• •	
If a Inter Auth	national Preliminational Prelimination of the contract of the	ational prelimi ary Examining ais one to be th	Authority ne IPEA an	("IPEA") end the chosen	xcept that this does	be considered to be a written opinion of the not apply where the applicant chooses an a International Bureau under Rule 66.1bis(b) ered.
l IPE	A a written reply to	ogether, where	appropriate	e, with amend	lments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
For	further options, see	e Form PCT/IS	A/220.			
3. For	further details, see	notes to Form	PCT/ISA/2	20.		
Name ar	nd mailing address Mail Stop PCT, Att Commissioner for I	n: ISA/US	i		etion of this opinion 2005 (01.09.2005)	Authorized officer
	P.O. Box 1450 Alexandria, Virgini	a 22313-1450				Telephone No. 703-308-1235

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (April 2005)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/37854

	INTERNATIONAL SEARCHING AUTHORITY	PCT/US04/37854			
Box No	o. I Basis of this opinion				
1. With 1	regard to the language, this opinion has been established on the basis of:				
$\boxtimes$	the international application in the language in which it was filed				
	a translation of the international application into, which is the lang international search (Rules 12.3(a) and 23.1(b)).	uage of a translation furnished for the purposes of			
	regard to any nucleotide and/or amino acid sequence disclosed in the intion, this opinion has been established on the basis of:	ternational application and necessary to the claimed			
a.	type of material				
	a sequence listing				
	table(s) related to the sequence listing				
b.	format of material				
	on paper				
	in electronic form				
c.	time of filing/furnishing				
	contained in the international application as filed.				
	filed together with the international application in electronic form				
	furnished subsequently to this Authority for the purposes of search	<b>.</b>			
3.	In addition, in the case that more than one version or copy of a sequence or furnished, the required statements that the information in the subsection as filed or does not go beyond the application as filed, as approximately	quent or additional copies is identical to that in the			
4. Addi	tional comments:				
		*			

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No PCT/US04/37854

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement					
Novelty (N)	Claims 1-47	YES			
	Claims NONE	NO			
		<del></del>			
Inventive step (IS)	Claims 1-47	YES			
	Claims NONE	NO			
Industrial applicability (IA)	Claims 1-47	YES			
industrial applicability (111)	Claims NONE	NO			
•					
2. Citations and explanations:					
Claims 1-47 meet the criteria set out in PCT Article 33(2 from the 4 position of the imidazolo core.	2)-(3), because the prior art does not teach or fairly suggest the substi	tutients			
Claims 1-47 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.					
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Form PCT/ISA/237 (Box No. V) (April 2005)

#### NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Witain 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions. Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.